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121 ITiCSE 2001 working group reports: Resources for instructors of capstone courses in com

Tony Clear, Michael Goldweber, Frank H. Young, Paul M. Leidig, Kirk Scott

December 2001 **Working group reports from ITiCSE on Innovation and technology in comp‹ education ITiCSE-WGR '01**

Publisher: ACM Press

Full text available: 📄 pdf(2.17 MB)   Additional Information: full citation, abstract, references, citings, inde;

> Most computing programs now have some form of integrative or capstone course in which stud‹
> significant project under supervision. There are many different models for such courses and cor
> courses is a complex task. This report is intended to assist instructors of capstone courses, part
> the model of teaching and learning inherent in the capstone course.This paper discusses import
> be addressed when conducting capstone courses. Th ...

122 Secure key agreement for group communications

Wen-Her Yang, Shiuh-Pyng Shieh

November 2001 **International Journal of Network Management**, Volume 11 Issue 6

Publisher: John Wiley & Sons, Inc.

Full text available: 📄 pdf(174.68 KB)   Additional Information: full citation, abstract, references, index terms

> A secure key agreement protocol for group communications is proposed in this paper, which en
> authenticity of group members and the privacy of group messages, and provides the properties
> and backward privacy. In a group session, the common key is collaboratively established by all
> the overhead of key agreement is balanced among group members.

123 Untrusted hosts and confidentiality: secure program partitioning

Steve Zdancewic, Lantian Zheng, Nathaniel Nystrom, Andrew C. Myers

October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM Operating systems principles SOSP '01**, Volume 35 Issue 5

Publisher: ACM Press

Full text available: 📄 pdf(1.36 MB)   Additional Information: full citation, abstract, references, citings, inde;

> This paper presents secure program partitioning, a language-based technique for protecting cor
> computation in distributed systems containing mutually untrusted hosts. Confidentiality and int‹
> expressed by annotating programs with security types that constrain information flow; these pr
> partitioned automatically to run securely on heterogeneously trusted hosts. The resulting comm
> subprograms collectively implement the original p ...

124 Session 3: discussion: Ontology in information security: a useful theoretical foundation anc

tool
Victor Raskin, Christian F. Hempelmann, Katrina E. Triezenberg, Sergei Nirenburg
September 2001 **Proceedings of the 2001 workshop on New security paradigms NSPW '01**
Publisher: ACM Press
Full text available: pdf(507.99 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, inde;

> The paper introduces and advocates an ontological semantic approach to information security. I
> and its resources, the ontology and lexicons, are borrowed from the field of natural language pr
> adjusted to the needs of the new domain. The approach pursues the ultimate dual goals of inclu
> language data sources as an integral part of the overall data sources in information security ap|
> specification of the information security community ...

> **Keywords:** documentation, human factors, languages, security, standardization, theory

125 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: pdf(613.63 KB) html   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>
(2.78 KB)

126 The architecture and performance of security protocols in the ensemble group communica
diamonds to guard the castle
August 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue
Publisher: ACM Press
Full text available: pdf(418.73 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, inde;

> Ensemble is a Group Communication System built at Cornell and the Hebrew universities. It all
> create *process groups* within which scalable reliable fifo-ordered multicast and point-to-point co
> supported. The system also supports other communication properties, such as causal and total
> flow control, and the like. This article describes the security protocols and infrastructure of Ense
> using Ensemble with the extensions des ...

> **Keywords:** Group communication, security

127 An optimally robust hybrid mix network
Markus Jakobsson, Ari Juels
August 2001 **Proceedings of the twentieth annual ACM symposium on Principles of distrib**
PODC '01
Publisher: ACM Press
Full text available: pdf(858.02 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, inde;

> We present a mix network that achieves efficient integration of public-key and symmetric-key c
> *hybrid* mix network is capable of natural processing of arbitrarily long input elements, and is fa;
> and asymptotic senses. While the overhead in the size of input elements is linear in the number
> quite small in practice. In contrast to previous hybrid constructions, ours has optimal robustnes
> against any minority coa ...

128 Rethinking the design of the Internet: the end-to-end arguments vs. the brave new world
Marjory S. Blumenthal, David D. Clark
August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1
Publisher: ACM Press
Full text available: pdf(176.33 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, inde;

This article looks at the Internet and the changing set of requirements for the Internet as it bec commercial, more oriented toward the consumer, and used for a wider set of purposes. We disc principles that have guided the design of the Internet, called the end-to-end arguments, and we is a risk that the range of new requirements now emerging could have the consequence of com Internet's original design principles. Were ...

Keywords: ISP, Internet, end-to-end argument

129 SPINS: security protocols for sensor networks

Adrian Perrig, Robert Szewczyk, Victor Wen, David Culler, J. D. Tygar
July 2001 **Proceedings of the 7th annual international conference on Mobile computing MobiCom '01**
Publisher: ACM Press
Full text available: pdf(242.17 KB)   Additional Information: full citation, abstract, references, cited by, ind

As sensor networks edge closer towards wide-spread deployment, security issues become a cer much research has focused on making sensor networks feasible and useful, and has not concen

We present a suite of security building blocks optimized for resource-constrained environments communication. SPINS has two secure building blocks: SNEP and &mgr;TESLA SNEP provides tl important baseline security primitives: Data confidentia ...

130 Efficient filtering in publish-subscribe systems using binary decision diagrams

Alexis Campailla, Sagar Chaki, Edmund Clarke, Somesh Jha, Helmut Veith
July 2001 **Proceedings of the 23rd International Conference on Software Engineering I**
Publisher: IEEE Computer Society
Full text available: pdf(225.86 KB)
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Implicit invocation or publish-subscribe has become an important architectural style for large-so and evolution. The publish-subscribe style facilitates developing large-scale systems by compos developed components because the style permits loose coupling between various components. bottlenecks in using publish-subscribe systems for very large scale systems is the efficiency of I messages, i.e., matching of published events w ...

131 Agent mediated electronic commerce research at Hewlett Packard Labs, Bristol

Chris Preist
June 2001 **ACM SIGecom Exchanges**, Volume 2 Issue 3
Publisher: ACM Press
Full text available: pdf(151.18 KB)   Additional Information: full citation, abstract, references, index terms

Agent technology is a key enabling component in bringing about Hewlett-Packard e-services vis reason, HP Labs is making significant investments in research in this area. Work on agent techr includes agent-mediated B2B e-commerce, distributed agent-based personalization, agent-base bandwidth, automated auction design, mobile agents, user profiling and FIPA standardization ai things. In this article, we describe our work on ...

132 Matchmaking among minimal agents without a facilitator

Elth Ogston, Stamatis Vassiliadis
May 2001 **Proceedings of the fifth international conference on Autonomous agents AGE**
Publisher: ACM Press
Full text available: pdf(333.25 KB)   Additional Information: full citation, abstract, references, citings, inde:

Multi-Agent Systems are a promising way of dealing with large complex problems. However, it i how much complexity or pre-existing structure individual agents must have to allow them to wo

effectively. In this paper, we ask to what extent agents with minimal resources, local communic
directory service can solve a consumer-provider matchmaking problem. We are interested in fir
is massively scalable and can be used with re ...

Keywords: agent architectures, matchmaking, middle agents, multi-agent collaboration, multi·

133 A formal approach to protocols and strategies for (legal) negotiation

Guido Governatori, Marlon Dumas, Arthur H. M. ter Hofstede, Phillipa Oaks
May 2001   **Proceedings of the 8th international conference on Artificial intelligence and**
Publisher: ACM Press
Full text available: pdf(145.01 KB)   Additional Information: full citation, abstract, references, citings, inde:

We propose a formal and executable framework for expressing protocols and strategies for autc
negotiation. In this framework a party involved in a negotiation is represented through a softwa
of four modules: (i) a communication module which manages the interaction with the other age
module; (iii) a reasoning module specified as a defeasible theory; and (iv) a knowledge base wl
control and the reasoning modules, while keeping trac ...

Keywords: auctions, automated legal negotiation, defeasible logic, software agents

134 Improving the representation of legal case texts with information extraction methods

Stefanie Brüninghaus, Kevin D. Ashley
May 2001   **Proceedings of the 8th international conference on Artificial intelligence and**
Publisher: ACM Press
Full text available: pdf(188.30 KB)   Additional Information: full citation, abstract, references, citings, inde:

The prohibitive cost of assigning indices to textual cases is a major obstacle for the practical us‹
systems supporting reasoning and arguing with cases. While progress has been made toward e:
facts from well-structured case texts or classifying case abstracts under Key Number concepts,
do not suffice for the complexity of indexing concepts in CBR systems.

In this paper, we lay out how a better example representation may facilitate cla ...

135 Agent-oriented technology in support of e-business

Mike P. Papazoglou
April 2001   **Communications of the ACM**, Volume 44 Issue 4
Publisher: ACM Press
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136 Natural language processing for information assurance and security: an overview and impl

Mikhail J. Atallah, Craig J. McDonough, Victor Raskin, Sergei Nirenburg
February 2001 **Proceedings of the 2000 workshop on New security paradigms NSPW '00**
Publisher: ACM Press
Full text available: pdf(1.29 MB)   Additional Information: full citation, references, citings, index terms

137 Multilateral security a concept and examples for balanced security

Kai Rannenberg
February 2001 **Proceedings of the 2000 workshop on New security paradigms NSPW '00**

Publisher: ACM Press
Full text available: pdf(1.05 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: GSM, mobile communication, multilateral security, negotiation, privacy, protection, management, security management, simulation study

138 <u>Simple and fault-tolerant key agreement for dynamic collaborative groups</u>
Yongdae Kim, Adrian Perrig, Gene Tsudik
November 2000 **Proceedings of the 7th ACM conference on Computer and communications**
Publisher: ACM Press
Full text available: pdf(319.01 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

139 <u>Regulating service access and information release on the Web</u>
Piero Bonatti, Pierangela Samarati
November 2000 **Proceedings of the 7th ACM conference on Computer and communications**
Publisher: ACM Press
Full text available: pdf(599.91 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: access control, digital certificate, privacy

140 <u>Verifying security protocols with Brutus</u>
E. M. Clarke, S. Jha, W. Marrero
October 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM),** Volum
Publisher: ACM Press
Full text available: pdf(347.12 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, inde

Due to the rapid growth of the "Internet" and the "World Wide Web" security has become a ver
in the design and implementation of software systems. Since security has become an important
of protocols in this domain has become very large. These protocols are very diverse in nature.]
architect wants to deploy some of these protocols in a system, they have to be sure that the pr
properties as dictated ...

Keywords: authentication and secure payment protocols, formal methods, model-checking

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